Applied P & Ch Laboratories
Project: JPL GW Mon. 4-Q03, 04.4428.10

ATL Work Order: 065794

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

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Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Applied P & Ch Laboratories
Project: JPL GW Mon. 4-Q03, 04-4428.10
Lab Order: 065794

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

QC Batch R32644 (EPA 200.8)

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

QC Batch R32645 (EPA 200.8)

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Subcontract Chain of Custody

Please Print in pen

Subcontract Lab: ATL
Contact: Puri
Tel #: (562)989-4045 Fax #: (562)989-4040
Address: 3275 Walnut Avenue
City: Signal Hill
State: CA
Zip code: 90807
APCL Client: #03-6063
APCL Contact: Kenny Chan
Project Name/Code JPL GW Mon. 4-Q03
Job # 04-4428.10
BILL TO APCL
Sub Quotation #
Due Date: ☒ regular ☐ rush: ___ days ___ hours
Sampled by: J.R.

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr by 200.8	Analysis Items	Remarks
	MW-21-5	103003	0818	W	HNO_3	1	X		Level 4 pkg
	MW-21-4	103003	0843	W	HNO_3	2	X	← MS/MSD	and EDD.
	MW-21-3	103003	0924	W	HNO_3	1	X		
	MW-21-2	103003	0945	W	HNO_3	1	X		
	MW-21-1	103003	1011	W	HNO_3	1	X		
	EB-7-10-30-03	103003	1016	W	HNO_3	1	X		
	MW-3-5	110303	0805	W	HNO_3	1	X		
	MW-3-4	110303	0829	W	HNO_3	1	X		
	MW-3-3	110303	0849	W	HNO_3	1	X		
	EB-8-11-3-03	110303	0933	W	HNO_3	1	X		
	MW-17-5	110403	0958	W	HNO_3	1	X		
	MW-17-4	110403	1022	W	HNO_3	1	X		
	MW-17-3	110403	1046	W	HNO_3	1	X		
	MW-17-2	110403	1128	W	HNO_3	1	X		
	MW-17-1	110403	1148	W	HNO_3	1	X		

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☒ NEESA D (E, C or D); ☒ Other EDD (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions: ☒ Intact; ☐ Broken. Cooler Seal: ☒ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☒ Cold (1.4 °C).

Relinquished by [signature] Date/Time 11/11/03 / 1000 Received by [signature] Date/Time 11/12/03 / 12:15

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports if in APCL's sole discretion ...

Applied P & Ch Laboratory

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Subcontract Chain of Custody

Please Print in pen

Subcontract Lab: ATL
Contact: Puri
Tel #: (562) 989-4045 Fax #: (562) 989-4040
Address: 3275 Walnut Avenue
City: Signal Hill
State: CA
Zip code: 90807
APCL Client: ~~1103~~ 6063
APCL Contact: Kenny Chan
Project Name/Code: JPL GW Mon. 4-Q03
Job # 04-4428.10
BILL TO APCL
Sub Quotation #
Due Date: ☒ regular ☐ rush: ___ days ___ hours
Sampled by: J.R.

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr by 200.8											Remarks
	Dupe-5-4-Q03	110403	1107	W	HNO_3	1	X											
	MW-14-5	110403	0719	W	HNO_3	1	X											Level 4 pkg
	MW-14-4	110403	0739	W	HNO_3	1	X											and EDD.
	MW-14-3	110403	0800	W	HNO_3	1	X											
	MW-14-2	110403	0819	W	HNO_3	1	X											
	MW-14-1	110403	0845	W	HNO_3	1	X											
	EB-9-11-4-03	110403	0834	W	HNO_3	1	X											
	MW10	110603	0728	W	HNO_3	1	X											
	MW-5	110603	0857	W	HNO_3	2	X											← MS/MSD
	MW-8	110603	1031	W	HNO_3	1	X											
	Dupe-7-4-Q03	110603	1037	W	HNO_3	1	X											
	MW-13	110703	0757	W	HNO_3	2	X											← MS/MSD
	MW-6	110703	0926	W	HNO_3	1	X											
	MW-15	110703	1003	W	HNO_3	1	X											
	Dupe-2-4-Q03	110703	1007	W	HNO_3	1	X											

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☒ NEESA D (E, C or D); ☒ Other EDD (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions: ☐ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☒ Cold (____ °C).

Relinquished by [signature] Date/Time 11/11/3 / 1000 Received by [signature] Date/Time 11/12/03 / 0.15

Relinquished by Date/Time / Received by Date/Time /

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Subcontract Lab: ATL
Contact: Puri
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Address: 3275 Walnut Avenue
City: Signal Hill
State: CA
Zip code: 90807
APCL Client: #03-6063
APCL Contact: Kenny Chan
Project Name/Code: JPL GW Mon. 4-Q03
Job # 04-4428.10
BILL TO APCL
Sub Quotation #
Due Date: ☒ regular ☐ rush: ___ days ___ hours
Sampled by: J.R.

Analysis Items: Cr 6/200.8

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr 6/200.8	Remarks
	MW-16	111003	0804	W	HNO_3	1	X	Level 4 pkg
	MW-7	111003	0940	W	HNO_3	1	X	and EDD.
	MW-1	111003	1100	W	HNO_3	1	X	
	MW-9	110503	0952	W	HNO_3	1	X	
	MW-3-2	110503	0729	W	HNO_3	1	X	
	MW-3-1	110503	0751	W	HNO_3	2	X	← MS/MSD

tk 11/11/3

White – With report
Yellow – Lab copy
Pink – Originator

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☒ NEESA D (E, C or D); ☒ Other EDD (Please specify)

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Relinquished by Date/Time / Received by Date/Time /

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL GW Mon. 4-Q03, 04-4428.10
Lab Order: 065794
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
065794-001A	MW-21-5	Water	10/30/2003	11/12/2003	11/19/2003
065794-002A	MW-21-4	Water	10/30/2003	11/12/2003	11/19/2003
065794-003A	MW-21-3	Water	10/30/2003	11/12/2003	11/19/2003
065794-004A	MW-21-2	Water	10/30/2003	11/12/2003	11/19/2003
065794-005A	MW-21-1	Water	10/30/2003	11/12/2003	11/19/2003
065794-006A	EB-7-10-30-03	Water	10/30/2003	11/12/2003	11/19/2003
065794-007A	MW-3-5	Water	11/3/2003	11/12/2003	11/19/2003
065794-008A	MW-3-4	Water	11/3/2003	11/12/2003	11/19/2003
065794-009A	MW-3-3	Water	11/3/2003	11/12/2003	11/19/2003
065794-010A	EB-8-11-3-03	Water	11/3/2003	11/12/2003	11/19/2003
065794-011A	MW-17-5	Water	11/4/2003	11/12/2003	11/19/2003
065794-012A	MW-17-4	Water	11/4/2003	11/12/2003	11/19/2003
065794-013A	MW-17-3	Water	11/4/2003	11/12/2003	11/19/2003
065794-014A	MW-17-2	Water	11/4/2003	11/12/2003	11/19/2003
065794-015A	MW-17-1	Water	11/4/2003	11/12/2003	11/19/2003
065794-016A	Dupe-5-4-Q03	Water	11/4/2003	11/12/2003	11/19/2003
065794-017A	MW-14-5	Water	11/4/2003	11/12/2003	11/19/2003
065794-018A	MW-14-4	Water	11/4/2003	11/12/2003	11/19/2003
065794-019A	MW-14-3	Water	11/4/2003	11/12/2003	11/19/2003
065794-020A	MW-14-2	Water	11/4/2003	11/12/2003	11/19/2003
065794-021A	MW-14-1	Water	11/4/2003	11/12/2003	11/19/2003
065794-022A	EB-9-11-4-03	Water	11/4/2003	11/12/2003	11/19/2003
065794-023A	MW-10	Water	11/6/2003	11/12/2003	11/19/2003
065794-024A	MW-5	Water	11/6/2003	11/12/2003	11/19/2003
065794-025A	MW-8	Water	11/6/2003	11/12/2003	11/19/2003
065794-026A	Dupe-7-4-Q03	Water	11/6/2003	11/12/2003	11/19/2003
065794-027A	MW-13	Water	11/7/2003	11/12/2003	11/19/2003
065794-028A	MW-6	Water	11/7/2003	11/12/2003	11/19/2003
065794-029A	MW-15	Water	11/7/2003	11/12/2003	11/19/2003

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

CLIENT: Applied P & Ch Laboratories
Project: JPL GW Mon. 4-Q03, 04-4428.10
Lab Order: 065794
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
065794-030A	Dupe-2-4-Q03	Water	11/7/2003	11/12/2003	11/19/2003
065794-031A	MW-16	Water	11/10/2003	11/12/2003	11/19/2003
065794-032A	MW-7	Water	11/10/2003	11/12/2003	11/19/2003
065794-033A	MW-1	Water	11/10/2003	11/12/2003	11/19/2003
065794-034A	MW-9	Water	11/5/2003	11/12/2003	11/19/2003
065794-035A	MW-3-2	Water	11/5/2003	11/12/2003	11/19/2003
065794-036A	MW-3-1	Water	11/5/2003	11/12/2003	11/19/2003

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-5
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	10/30/2003 8:18:00 AM
Lab ID:	065794-001A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	4.0		0.11	1.0	µg/L	1	11/14/2003 10:40:24 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-4
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	10/30/2003 8:43:00 AM
Lab ID:	065794-002A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	4.3		0.11	1.0	µg/L	1	11/14/2003 10:42:53 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-3
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	10/30/2003 9:24:00 AM
Lab ID:	065794-003A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	4.1		0.11	1.0	µg/L	1	11/14/2003 10:47:53 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-2
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	10/30/2003 9:45:00 AM
Lab ID:	065794-004A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	4.5		0.11	1.0	µg/L	1	11/14/2003 10:50:23 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-1
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	10/30/2003 10:11:00 AM
Lab ID:	065794-005A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	3.0		0.11	1.0	µg/L	1	11/14/2003 10:52:54 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	EB-7-10-30-03
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	10/30/2003 10:16:00 AM
Lab ID:	065794-006A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	ND		0.11	1.0	µg/L	1	11/14/2003 10:55:26 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-3-5
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/3/2003 8:05:00 AM
Lab ID:	065794-007A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	0.7	J	0.11	1.0	µg/L	1	11/14/2003 10:57:57 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-3-4
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/3/2003 8:29:00 AM
Lab ID:	065794-008A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	1.9		0.11	1.0	µg/L	1	11/14/2003 11:05:39 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-3-3
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/3/2003 8:49:00 AM
Lab ID:	065794-009A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	2.0		0.11	1.0	µg/L	1	11/14/2003 11:08:12 A

Qualifiers:

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J - Analyte detected below quantitation limits
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H-Samples exceed holding time

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Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	EB-8-11-3-03
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/3/2003 9:33:00 AM
Lab ID:	065794-010A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A	QC Bach: R32644		PrepDate:				
Chromium	ND		0.11	1.0	µg/L	1	11/14/2003 11:10:45 A

Qualifiers:

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Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-17-5
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 9:58:00 AM
Lab ID:	065794-011A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	1.7		0.11	1.0	µg/L	1	11/14/2003 11:13:19 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-17-4
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 10:22:00 AM
Lab ID:	065794-012A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	1.5		0.11	1.0	µg/L	1	11/14/2003 11:15:53 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-17-3
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 10:46:00 AM
Lab ID:	065794-013A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A	QC Bach: R32644		PrepDate:				
Chromium	3.8		0.11	1.0	µg/L	1	11/14/2003 11:18:24 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-17-2
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 11:28:00 AM
Lab ID:	065794-014A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	2.8		0.11	1.0	µg/L	1	11/14/2003 11:20:51 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-17-1
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 11:48:00 AM
Lab ID:	065794-015A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	2.1		0.11	1.0	µg/L	1	11/14/2003 11:23:19 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	Dupe-5-4-Q03
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 11:07:00 AM
Lab ID:	065794-016A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	3.7		0.11	1.0	µg/L	1	11/14/2003 11:25:47 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-14-5
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 7:19:00 AM
Lab ID:	065794-017A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	1.8		0.11	1.0	µg/L	1	11/14/2003 11:28:16 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-14-4
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 7:39:00 AM
Lab ID:	065794-018A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	3.7		0.11	1.0	µg/L	1	11/14/2003 11:35:55 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-14-3
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 8:00:00 AM
Lab ID:	065794-019A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	2.7		0.11	1.0	µg/L	1	11/14/2003 11:38:24 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-14-2
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 8:19:00 AM
Lab ID:	065794-020A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	2.3		0.11	1.0	µg/L	1	11/14/2003 12:20:58 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-14-1
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 8:45:00 AM
Lab ID:	065794-021A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B	QC Bach: R32645		PrepDate:				
Chromium	ND		1.1	10	µg/L	10	11/14/2003 2:19:06 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	EB-9-11-4-03
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/4/2003 8:34:00 AM
Lab ID:	065794-022A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	ND		0.11	1.0	µg/L	1	11/14/2003 12:25:55 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-10
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/6/2003 7:28:00 AM
Lab ID:	065794-023A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	7.6		0.11	1.0	µg/L	1	11/14/2003 12:28:23 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-5
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/6/2003 8:57:00 AM
Lab ID:	065794-024A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114A QC Bach: R32644			PrepDate:				
Chromium	2.8		0.11	1.0	µg/L	1	11/14/2003 11:40:55 A

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-8
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/6/2003 10:31:00 AM
Lab ID:	065794-025A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	1.5		0.11	1.0	µg/L	1	11/14/2003 12:30:51 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	Dupe-7-4-Q03
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/6/2003 10:37:00 AM
Lab ID:	065794-026A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	1.8		0.11	1.0	µg/L	1	11/14/2003 12:33:19 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-13
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/7/2003 7:57:00 AM
Lab ID:	065794-027A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	18		0.11	1.0	µg/L	1	11/14/2003 12:35:48 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-6
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/7/2003 9:26:00 AM
Lab ID:	065794-028A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	9.9		0.44	4.0	µg/L	4	11/14/2003 2:21:37 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-15
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/7/2003 10:03:00 AM
Lab ID:	065794-029A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	3.4		0.11	1.0	µg/L	1	11/14/2003 12:48:27 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	Dupe-2-4-Q03
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/7/2003 10:07:00 AM
Lab ID:	065794-030A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	3.4		0.11	1.0	µg/L	1	11/14/2003 12:50:58 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-16
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/10/2003 8:04:00 AM
Lab ID:	065794-031A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	3.3		0.11	1.0	µg/L	1	11/14/2003 12:53:30 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-7
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/10/2003 9:40:00 AM
Lab ID:	065794-032A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	5.0		0.11	1.0	µg/L	1	11/14/2003 12:56:02 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-1
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/10/2003 11:00:00 AM
Lab ID:	065794-033A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	2.4		0.11	1.0	µg/L	1	11/14/2003 12:58:34 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-9
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/5/2003 9:52:00 AM
Lab ID:	065794-034A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B	QC Bach: R32645			PrepDate:			
Chromium	5.5		0.11	1.0	µg/L	1	11/14/2003 1:01:07 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-3-2
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/5/2003 7:29:00 AM
Lab ID:	065794-035A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	1.6		0.11	1.0	µg/L	1	11/14/2003 1:03:40 P

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Samples exceed holding time

Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-3-1
Lab Order:	065794		
Project:	JPL GW Mon. 4-Q03, 04-4428.10	**Collection Date:**	11/5/2003 7:51:00 AM
Lab ID:	065794-036A	**Matrix:**	WATER

Analyte	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
ICP-MS METALS			**EPA 200.8**				Analyst: **NS**
RunID: ICP4_031114B QC Bach: R32645			PrepDate:				
Chromium	1.8		0.11	1.0	µg/L	1	11/14/2003 1:06:10 P

Qualifiers:

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Advanced Technology Laboratories

Date: *19-Nov-03*

CLIENT: Applied P & Ch Laboratories
Work Order: 065794
Project: JPL GW Mon. 4-Q03, 04-4428.10

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **MB-R32644** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **ZZZZZ** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.235	1.0									J

Sample ID: **MB-R32645** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **ZZZZZ** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.174	1.0									J

Sample ID: **LCS-R32644** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **ZZZZZ** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.961	1.0	10	0	99.6	85	115	0	0		

Sample ID: **LCS-R32645** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **ZZZZZ** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.896	1.0	10	0	99	85	115	0	0		

Sample ID: **065794-002AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **MW-21-4** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485537**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	11.24	1.0	10	4.286	69.5	80	120	0	0		S

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Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Applied P & Ch Laboratories
Work Order: 065794
Project: JPL GW Mon. 4-Q03, 04-4428.10

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **065794-024AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **MW-5** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.59	1.0	10	2.842	77.5	80	120	0	0		S

Sample ID: **065794-027AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **MW-13** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	26.73	2.0	10	17.71	90.1	80	120	0	0		

Sample ID: **065794-036AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **MW-3-1** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485581**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.595	1.0	10	1.78	78.2	80	120	0	0		S

Sample ID: **065794-002AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **MW-21-4** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485538**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	11.24	1.0	10	4.286	69.5	80	120	11.24	0.0267	20	S

Sample ID: **065794-024AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **MW-5** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.7	1.0	10	2.842	78.6	80	120	10.59	1.05	20	S

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Calculations are based on raw values
DO- Surrogate dilute out
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CLIENT: Applied P & Ch Laboratories
Work Order: 065794
Project: JPL GW Mon. 4-Q03, 04-4428.10

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **065794-027AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **MW-13** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	26.82	2.0	10	17.71	91.1	80	120	26.73	0.359	20	

Sample ID: **065794-036AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **MW-3-1** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.533	1.0	10	1.78	77.5	80	120	9.595	0.648	20	S

Sample ID: **065794-002ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **MW-21-4** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	3.93	1.0	0	0	0	0	0	4.286	8.67	30	

Sample ID: **065794-024ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114A**
Client ID: **MW-5** Batch ID: **R32644** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485562**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.779	1.0	0	0	0	0	0	2.842	2.24	30	

Sample ID: **065794-027ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **MW-13** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	17.83	1.0	0	0	0	0	0	17.71	0.664	30	

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DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Applied P & Ch Laboratories
Work Order: 065794
Project: JPL GW Mon. 4-Q03, 04-4428.10

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **065794-036ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_031114B**
Client ID: **MW-3-1** Batch ID: **R32645** TestNo: **EPA 200.8** Analysis Date: **11/14/2003** SeqNo: **485586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.763	1.0	0	0	0	0	0	1.78	0.960	30	

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